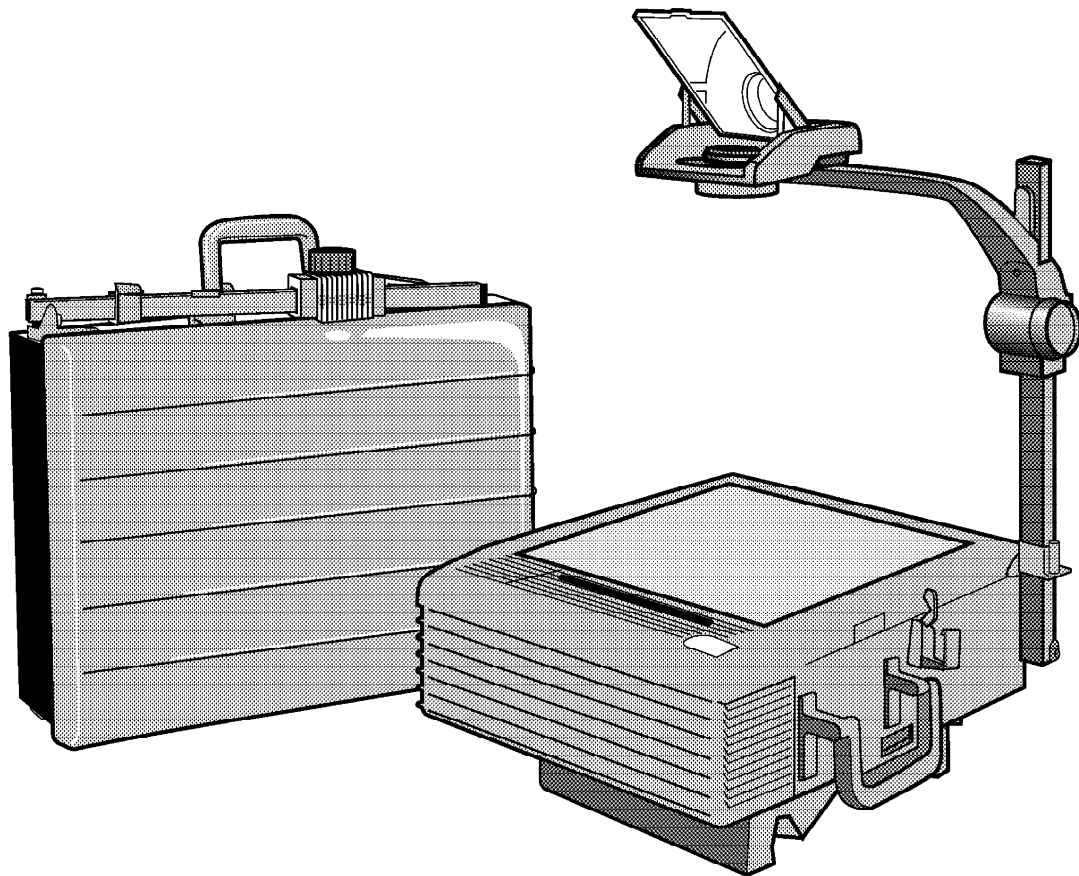


# **3M**

## **9600**

### **Overhead Projector**

## Illustrated Parts Breakdown



**3M Visual Systems Division**

6801 River Place Boulevard  
Austin, Texas 78726-9000

Printed in U.S.A.

E3M 4/96 78-6970-6708-6

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## Introduction

This Illustrated Parts Breakdown (IPB) contains the information necessary to locate and identify specific parts of the 9600 Overhead Projector.

## Part Numbers

All components available on a replacement basis are listed with their 3M identification number. The parts identification list opposite each illustration provides the description adequate to identify components.

## Locating and Identifying a Part

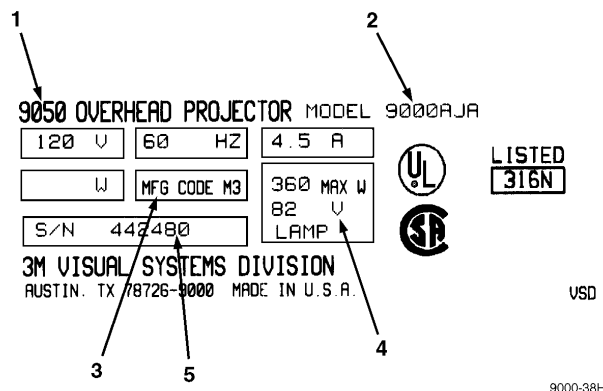
If physical appearance and general location of an item are known:

1. Use the Overview illustration to determine which section includes the item.
2. Refer to the section and locate the item on the exploded view illustration.

The part identification numbers provided in this manual are from the most current data available. Make sure part identification numbers for your component have not been amended by changes and updates made to your 9600 Overhead Projector.

## Machine Identification Plate

The Machine Identification Plate is located on the bottom side of each projector and lists specific information that is needed when calling for technical assistance or ordering parts.



When ordering parts, include part identification number, description, quantity and the following information:

1. Product Name: The specific version number of the projector.
2. Model Number/Alpha Code: The series number of the projector followed by a three or four character alpha code identifier. The Alpha Code indicates the design level, specific product characteristics, power cord or distribution specific to a country.
3. MFG Code: The date the projector was manufactured. See example below:

MFG Code			
Letter		Digit	
A	1994	1	Jan - Mar
C	1995	2	Apr - Jun
D	1996	3	Jul - Sep
E	1997	4	Oct - Dec
F	1998	1	Jan - Mar

4. Lamp: The electrical rating of the lamp.
5. S/N: The serial number assigned to this projector.

For part orders contact:

Dealers:	Refer to Dealers Guide
3M Subsidiaries:	Contact Export Operations
Retail Customers:	
FAX:	1-800-852-3917
Telephone:	1-800-328-2883

Figure 7-1. Machine Identification Plate

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**Table of Contents**

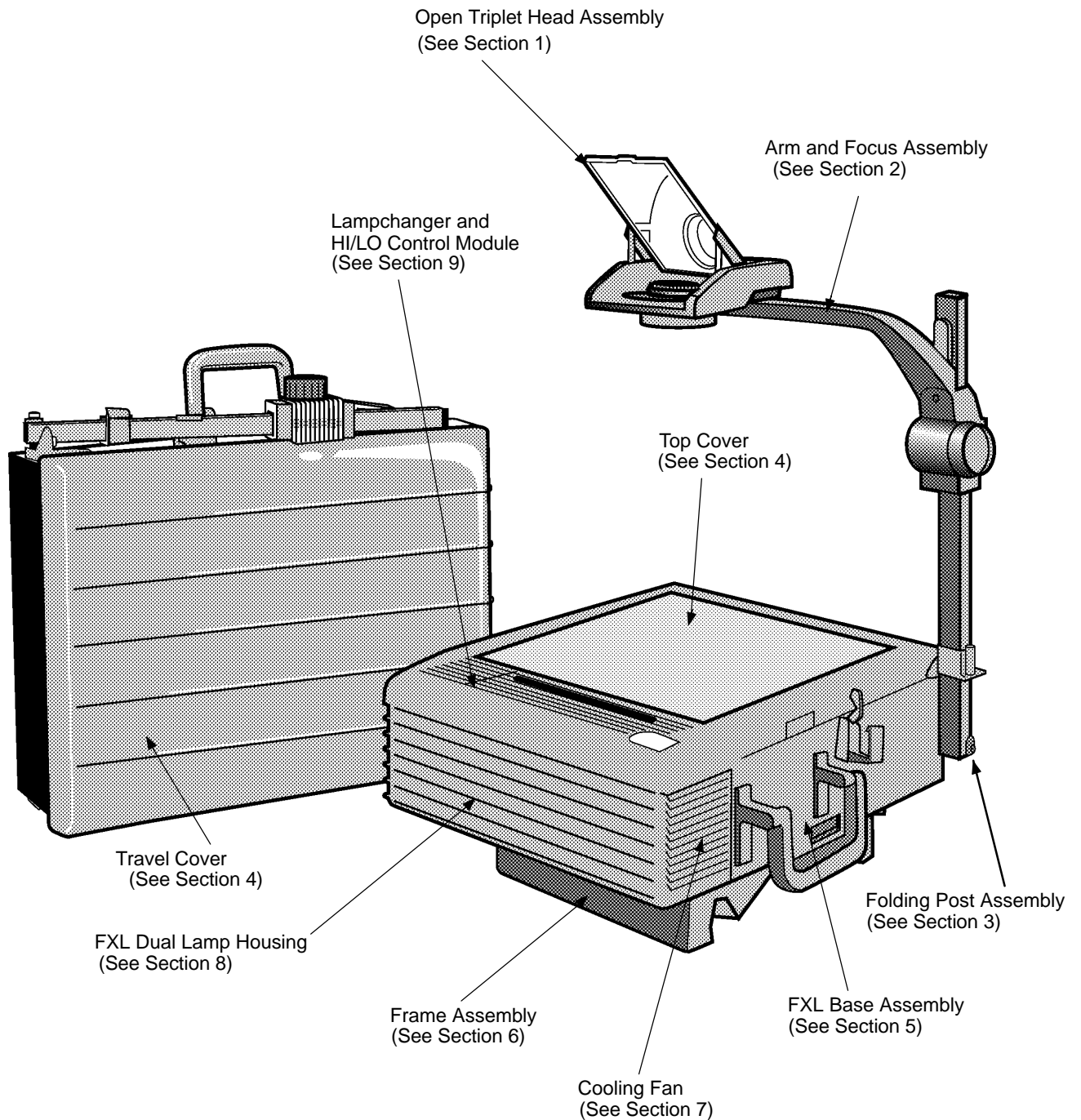
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1	Open Triplet Head Assembly (with optional Flip-in Magnifier)	5
2	Arm and Focus Assembly	7
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**IMPORTANT NOTICE**

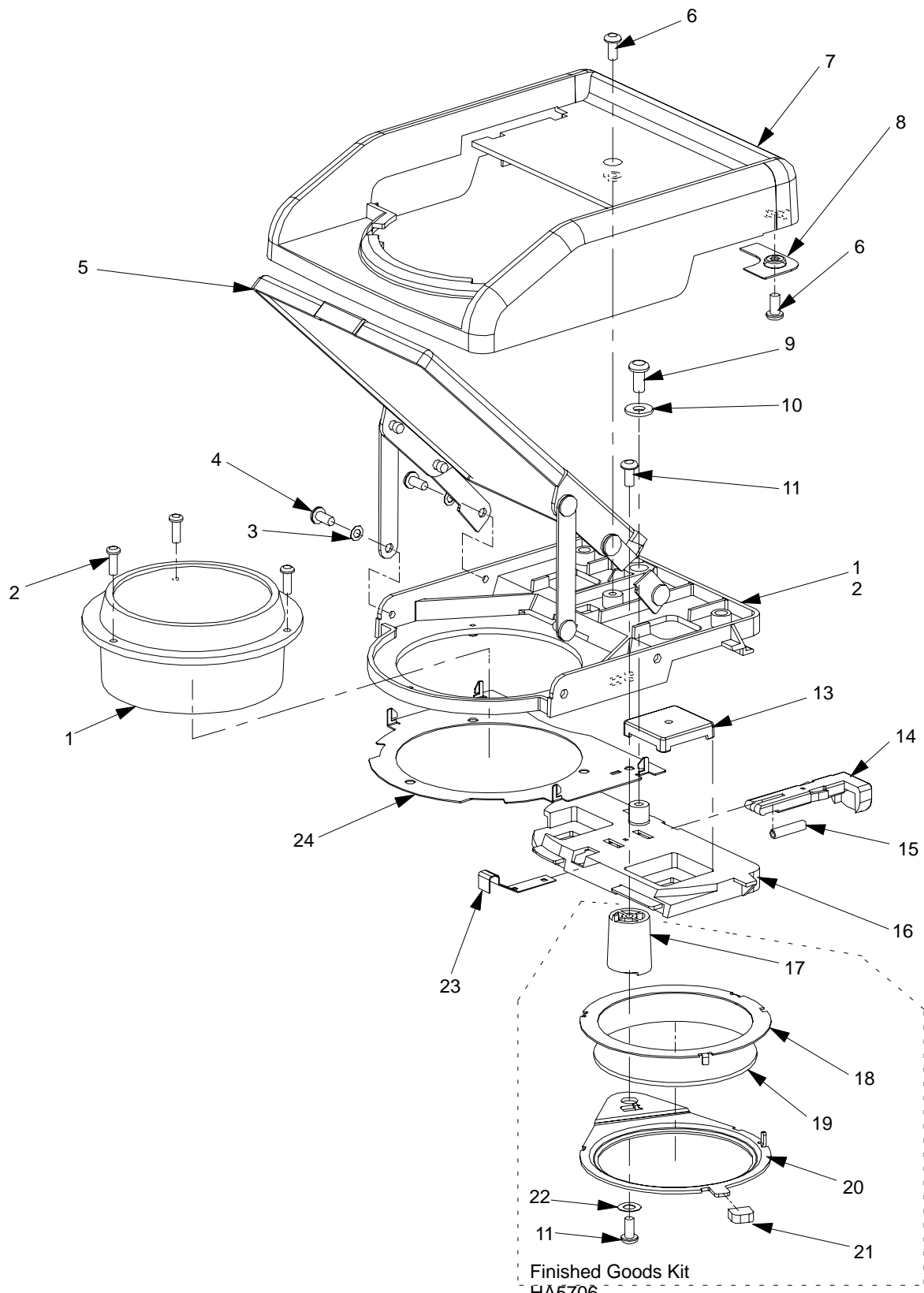
**3M reserves the right to sell or furnish NEW OR RECONDITIONED PARTS.  
New and reconditioned parts are covered by the same 3M new parts limited warranty.**

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**Section 0  
OVERVIEW**



**Section 1**  
**OPEN TRIPLET HEAD ASSEMBLY**





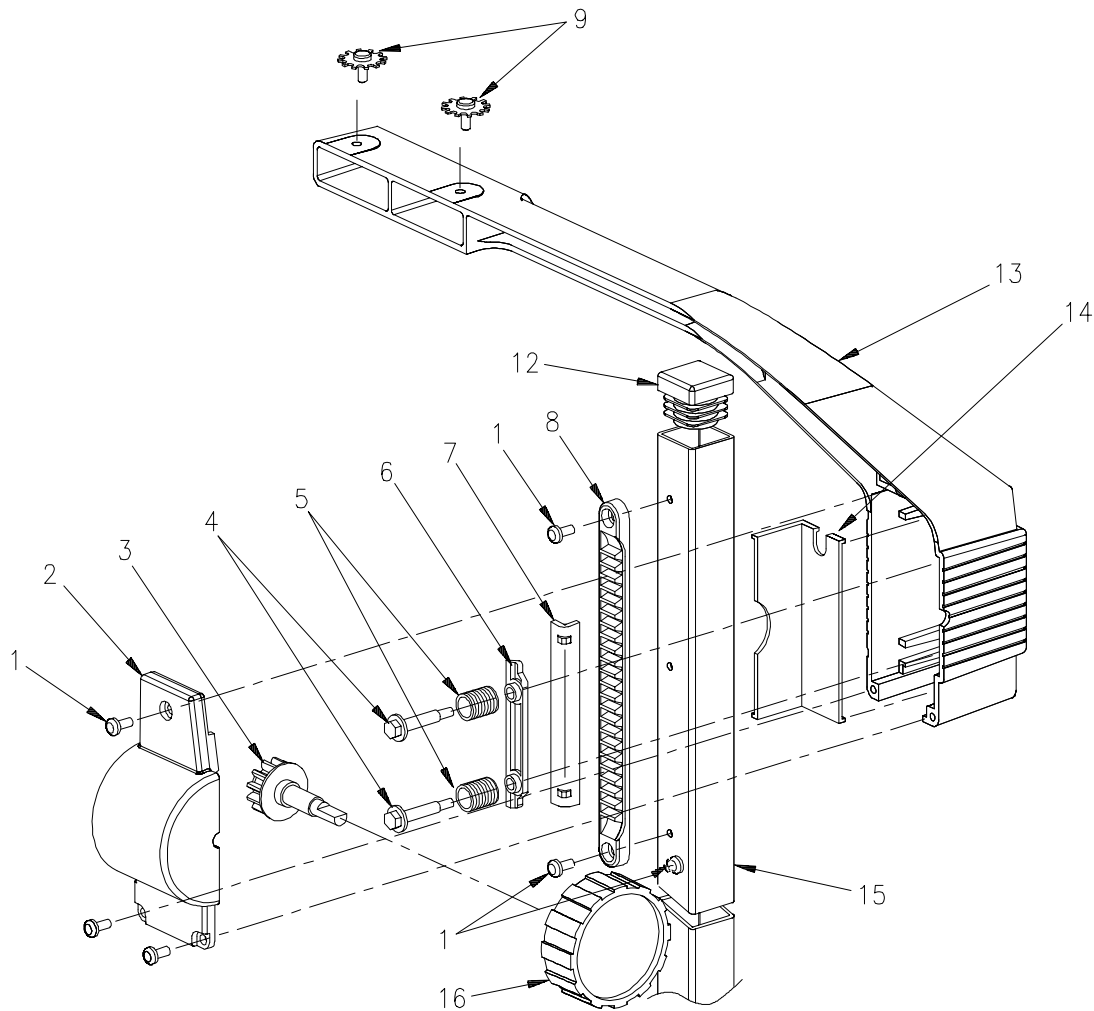
**Section 1**  
**OPEN TRIPLET HEAD ASSEMBLY**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	78-8064-1833-7 . . . . .	LENS, Triplet, 340 mm . . . . .	1
2 . . . .	26-1002-4967-6 . . . . .	SCREW, Plastite, 4-20x3/8, Bzn . . . . .	3
3 . . . .	78-8003-9713-1 . . . . .	WASHER, Wave . . . . .	4
4 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19x5/16, Zn . . . . .	4
5 . . . .	78-8095-8356-6 . . . . .	HEAD MIRROR ASSEMBLY . . . . .	1
6 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 X 5/16 . . . . .	2
7 . . . .	78-8095-8250-1 . . . . .	COVER, Head . . . . .	1
8 . . . .	78-8095-8279-0 . . . . .	HEAT SHIELD, Corner . . . . .	1
9 . . . .	26-1002-4972-6 . . . . .	SCREW, Plastite, 8/16 X 3/8 . . . . .	1
10 . . .	12-7991-1737-4 . . . . .	WASHER, Plain, #8 . . . . .	1
11 . . .	26-1002-4969-2 . . . . .	SCREW, Plastite, 6-19 X 3/8 (See Note) . . . . .	2
12 . . .	78-8095-8242-8 . . . . .	MIRROR/LENS MOUNT . . . . .	1
13 . . .	78-8095-8314-5 . . . . .	PLUG, Head . . . . .	1
14 . . .	78-8095-8277-4 . . . . .	BUTTON, Head . . . . .	1
15 . . .	26-1009-9465-1 . . . . .	SPRING, Compression . . . . .	1
16 . . .	78-8095-8241-0 . . . . .	BASE PLATE, Head . . . . .	1
17 . . .	78-8095-8271-7 . . . . .	PIVOT POST, Magnifier (See Note) . . . . .	1
18 . . .	78-8095-8270-9 . . . . .	LENS RETAINER, Magnifier (See Note) . . . . .	1
19 . . .	78-8097-3522-4 . . . . .	LENS, Flip-in Magnifier (Coated) (See Note) . . . . .	1
20 . . .	78-8095-8346-7 . . . . .	BRACKET, Lens Magnifier (See Note) . . . . .	1
21 . . .	78-8097-3599-2 . . . . .	CAP, Flip-in Magnifier (See Note) . . . . .	1
22 . . .	26-1009-9689-6 . . . . .	WASHER, Spring (See Note) . . . . .	1
23 . . .	78-8095-8278-2 . . . . .	LATCH, Head . . . . .	1
24 . . .	78-8095-8274-1 . . . . .	HEAT SHIELD . . . . .	1

**Note**

1. Part of Finished Goods Kit HA5706.

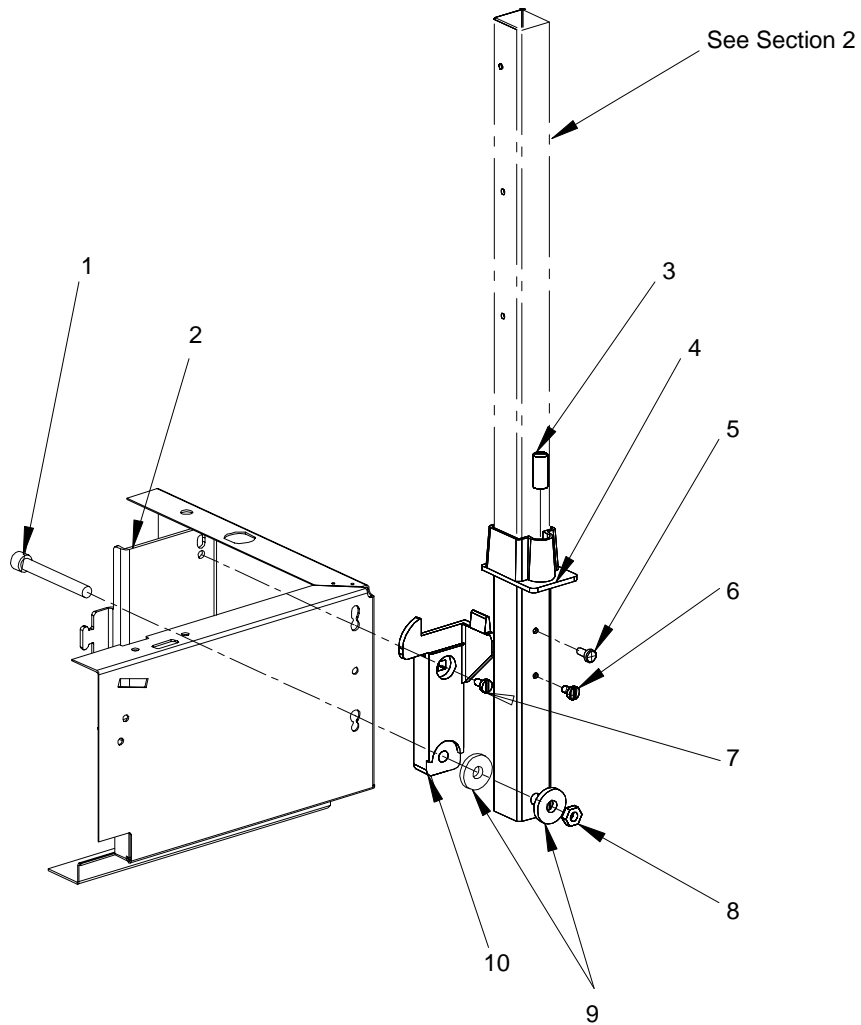
**Section 2**  
**ARM AND FOCUS ASSEMBLY**



**Section 2**  
**ARM AND FOCUS ASSEMBLY**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	26-1008-5592-8 . . . . .	SCREW, Taptite, M3.5 x 8 . . . . .	5
2 . . . .	78-8079-8742-1 . . . . .	CAP, Focus arm . . . . .	1
3A . . .	78-8079-8745-4 . . . . .	GEAR, Focus . . . . .	1
3B . . .	26-1009-4445-8 . . . . .	LUBRICANT . . . . .	AR
4 . . . .	78-8079-8746-2 . . . . .	SCREW, Shoulder . . . . .	2
5 . . . .	26-1009-4515-8 . . . . .	SPRING, Lee . . . . .	2
6 . . . .	78-8079-8740-0 . . . . .	BAR, Pressure . . . . .	1
7 . . . .	78-8079-8743-9 . . . . .	CLAMP, Friction . . . . .	1
8 . . . .	78-8079-8744-7 . . . . .	RACK, Focus . . . . .	1
9 . . . .	26-1003-6669-4 . . . . .	SCREW, Sems, M4 x 0.7 x 16 . . . . .	1
10 – 11 Not Used			
12 . . .	26-1009-3653-8 . . . . .	CAP, Post (22 mm square) . . . . .	1
13 . . .	78-8079-8741-3 . . . . .	ARM, Focus . . . . .	1
14 . . .	78-8011-1220-8 . . . . .	PAD, Wear . . . . .	1
15 . . .	78-8079-9088-8 . . . . .	POST, Folding, Long . . . . .	1
16 . . .	78-8064-1601-8 . . . . .	KNOB, Focus . . . . .	1

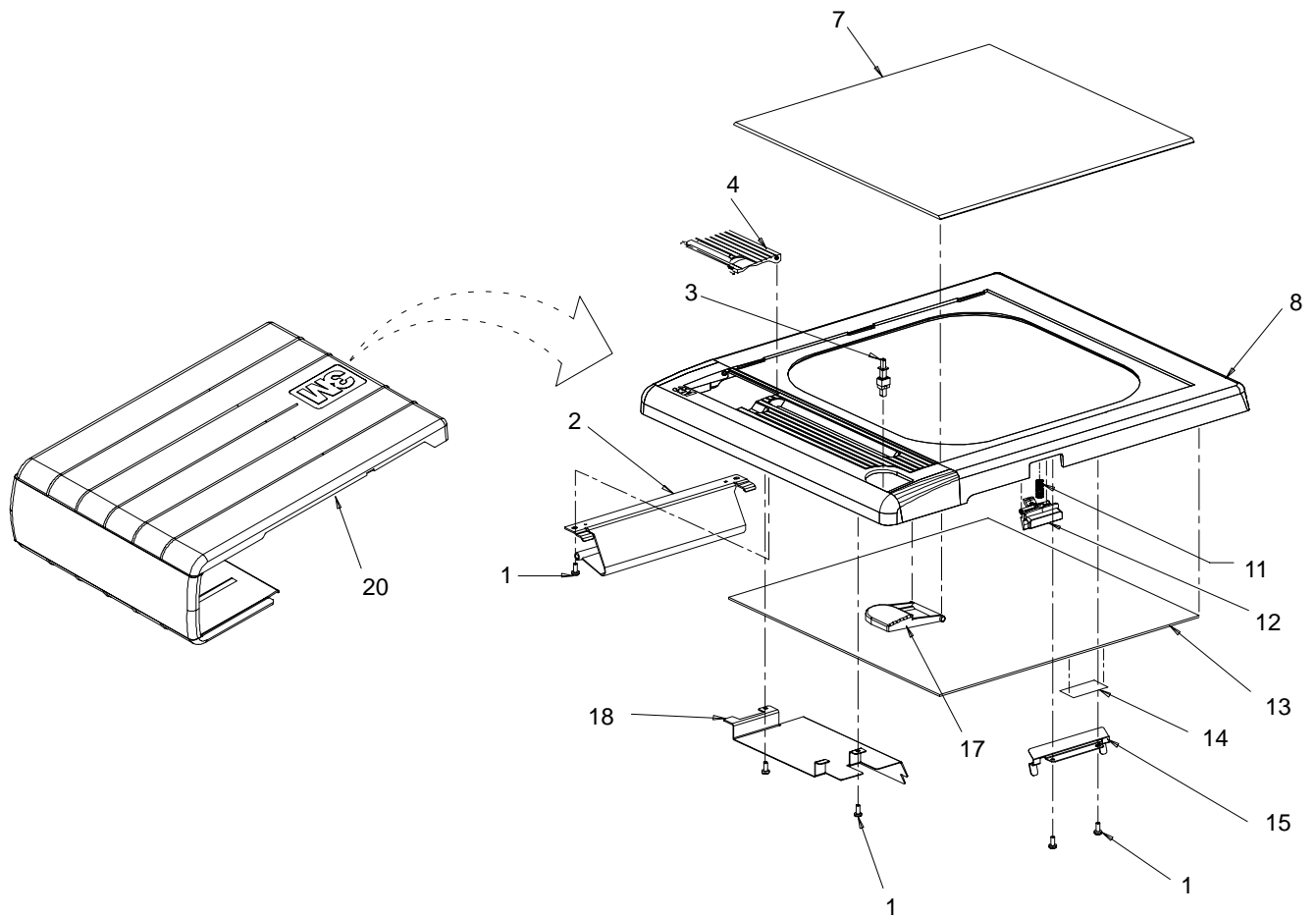
Section 3  
FOLDING POST ASSEMBLY



**Section 3**  
**FOLDING POST ASSEMBLY**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	78-8095-8361-6 . . . . .	BOLT, Pivot . . . . .	1
2 . . . .	78-8095-8354-1 . . . . .	BRACE, Post . . . . .	1
3 . . . .	26-1009-8679-8 . . . . .	SPRING, Compression . . . . .	1
4 . . . .	78-8079-8852-8 . . . . .	POST, Lock . . . . .	1
5 . . . .	78-8079-8997-1 . . . . .	SCREW, Latch . . . . .	1
6 . . . .	26-1008-5592-8 . . . . .	SCREW, Taptite, M3.5 X 8 . . . . .	1
7 . . . .	26-1002-5107-8 . . . . .	SCREW, Taptite, 10-32 X 5/8 . . . . .	1
8 . . . .	26-1006-7602-7 . . . . .	NUT, Hex, 1/4-20, Elastic Stop Lock . . . . .	1
9 . . . .	26-1009-7284-8 . . . . .	WASHER . . . . .	1
10 . . .	78-8079-8875-9 . . . . .	PIVOT, Post-Mount . . . . .	1

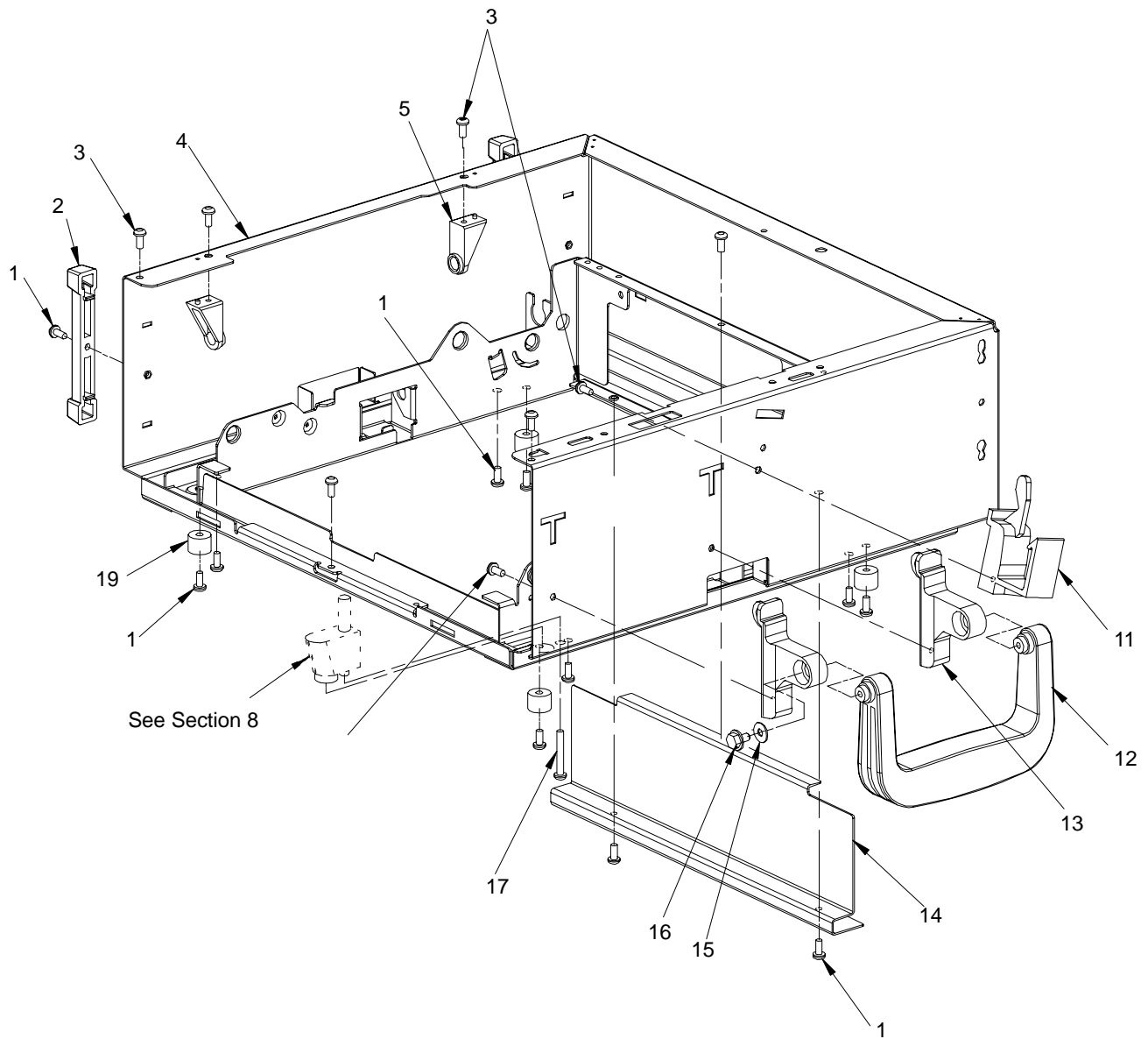
Section 4  
TOP COVER and TRAVEL COVER



**Section 4**  
**TOP COVER and TRAVEL COVER**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 X 5/16 . . . . .	6
2 . . . .	78-8079-8818-9 . . . . .	BRACKET, Hinge . . . . .	1
3 . . . .	78-8064-1515-0 . . . . .	ACTUATOR, Switch Button . . . . .	1
4 . . . .	78-8095-8317-8 . . . . .	DOOR, Lamp Changer . . . . .	1
5-6	Not Used		
7 . . . .	78-8064-1473-2 . . . . .	GLASS, Stage . . . . .	1
8 . . . .	78-8095-8374-9 . . . . .	COVER Top (10.5) . . . . .	1
9-10	Not Used		
11 . . .	78-8005-0481-9 . . . . .	SPRING . . . . .	1
12 . . .	78-8079-8768-6 . . . . .	LATCH, Cover, Top . . . . .	1
13 . . .	78-8064-1590-3 . . . . .	LENS, Fresnel, Single Element . . . . .	1
14 . . .	78-8079-8939-3 . . . . .	LABEL, Caution, Lens . . . . .	1
15 . . .	78-8079-8828-8 . . . . .	RETAINER, Fresnel . . . . .	1
16	Not Used		
17 . . .	78-8079-8974-0 . . . . .	BUTTON, Switch (Plum) . . . . .	1
18 . . .	78-8079-8924-5 . . . . .	SHIELD, Lamp . . . . .	1
19	Not Used		
20 . . .	78-8095-8240-2 . . . . .	COVER, Travel (includes decal) . . . . .	1

**Section 5**  
**FXL BASE ASSEMBLY**

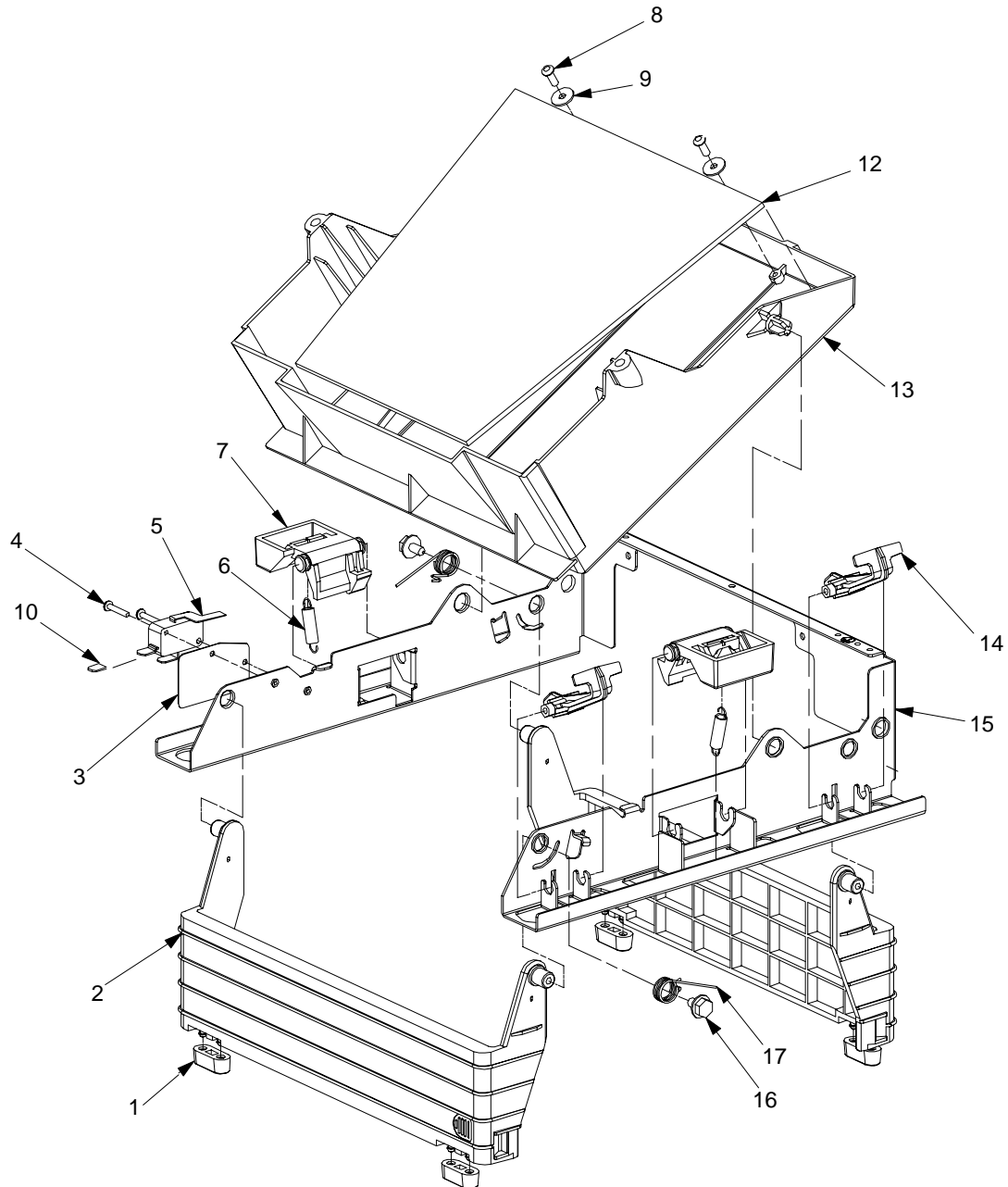




**Section 5**  
**FXL BASE ASSEMBLY**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	26-1008-5592-8 . . . . .	SCREW, Taptite, M3.5 X 8 . . . . .	7
2 . . . .	78-8095-8256-8 . . . . .	FOOT, Side . . . . .	2
3 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 X 5/16 . . . . .	4
4 . . . .	78-8095-8373-1 . . . . .	BASE, 9600 . . . . .	1
5 . . . .	78-8079-8817-1 . . . . .	PIVOT, Cover . . . . .	2
6-10	Not Used		
11 . . .	78-8079-8890-8 . . . . .	CRADLE, Post . . . . .	1
12 . . .	78-8095-8247-7 . . . . .	HANDLE . . . . .	1
13 . . .	78-8095-8261-8 . . . . .	HANDLE RETAINER . . . . .	1
14 . . .	78-8095-8234-5 . . . . .	SHIELD, FXL . . . . .	1
15 . . .	26-1009-9819-9 . . . . .	WASHER, Nylon . . . . .	2
16 . . .	78-8095-8262-6 . . . . .	SCREW, Retainer . . . . .	2
17 . . .	26-1003-3716-6 . . . . .	SCREW, Plastite, 6-19 X 1 . . . . .	1
18	Not Used		
19 . . .	78-8095-8318-6 . . . . .	FOOT, Base . . . . .	4

**Section 6**  
**FRAME ASSEMBLY**

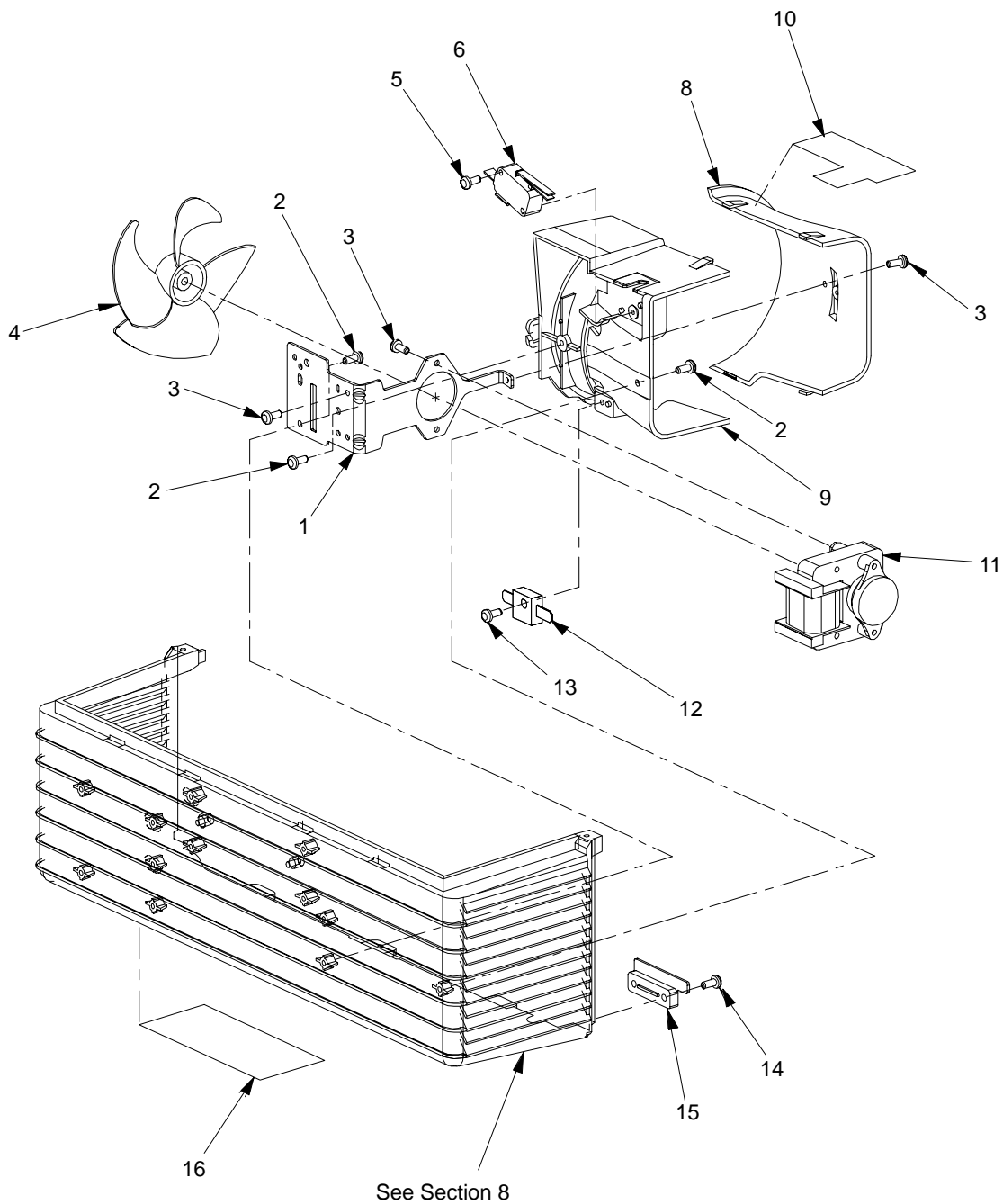


**Section 6**  
**FRAME ASSEMBLY**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	78-8095-8255-0 . . . . .	FOOT, Isolation . . . . .	4
2 . . . .	78-8095-8231-1 . . . . .	LEG, Folding . . . . .	2
3 . . . .	78-8095-8276-6 . . . . .	INSULATOR, Switch . . . . .	1
4 . . . .	26-1009-9464-4 . . . . .	SCREW, Taptite, 4-40 X 9/16 . . . . .	2
5 . . . .	78-8095-8280-8 . . . . .	SWITCH, Interlock . . . . .	1
6 . . . .	78-8095-8264-2 . . . . .	SPRING, Exten., Latch . . . . .	2
7 . . . .	78-8095-8239-4 . . . . .	LATCH . . . . .	2
8 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 X 5/16 . . . . .	2
9 . . . .	26-1001-7439-5 . . . . .	WASHER, Nylon . . . . .	2
10 . . .	26-1005-6802-6 . . . . .	HOUSING, Wire . . . . .	2
11	Not Used		
12 . . .	78-8079-9058-1 . . . . .	MIRROR, First Surface, Body, FXL . . . . .	1
13 . . .	78-8095-8251-9 . . . . .	PAN, Mirror, FXL . . . . .	1
14 . . .	78-8095-8238-6 . . . . .	STOP, Leg . . . . .	4
15 . . .	78-8095-8236-0 . . . . .	FRAME, Base . . . . .	1
16 . . .	78-8095-8262-6 . . . . .	SCREW, Retainer . . . . .	4
17 . . .	78-8095-8257-6 . . . . .	SPRING, Torsion, Leg . . . . .	2

## Section 7

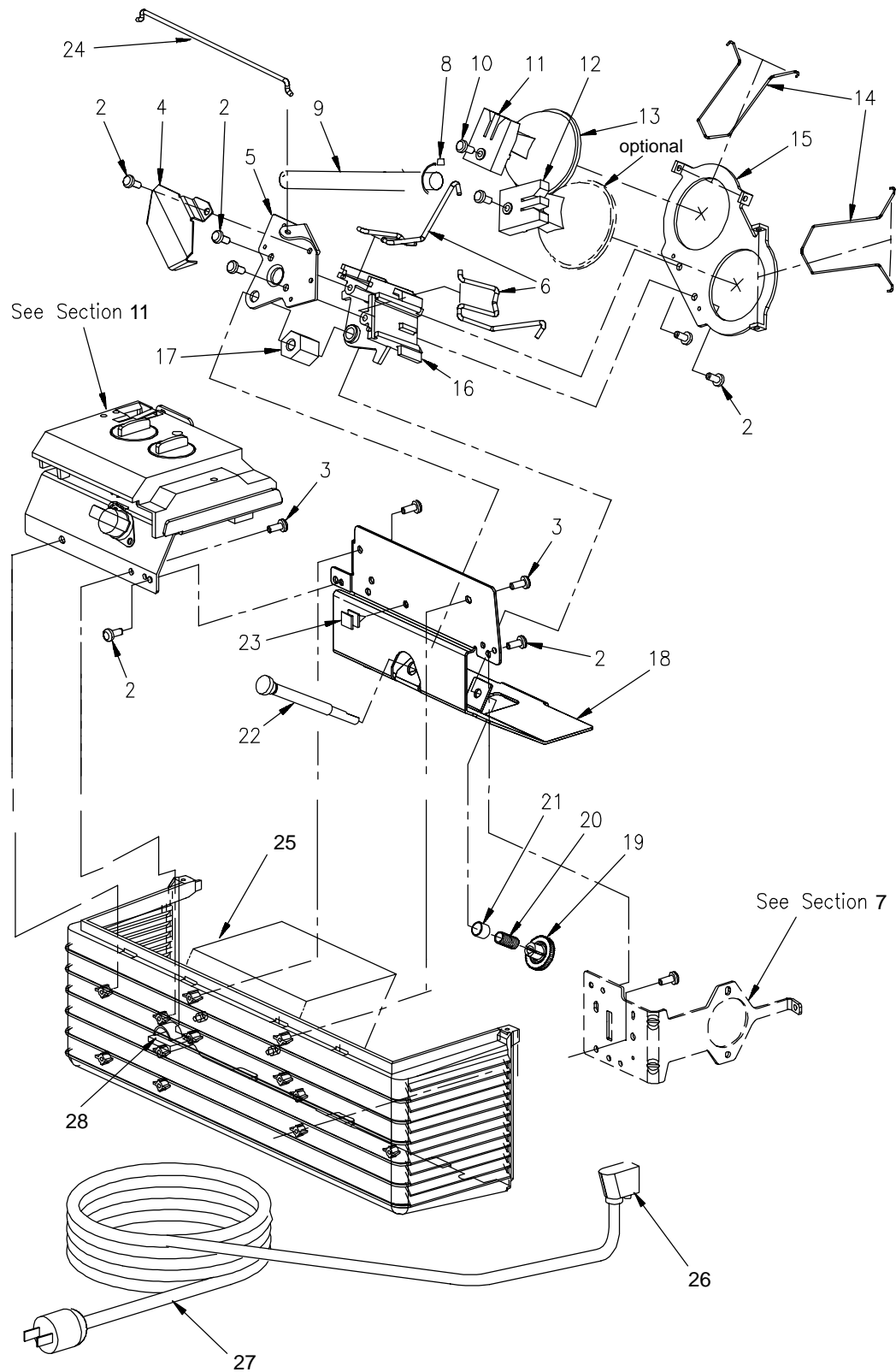
### COOLING FAN



**Section 7**  
**COOLING FAN**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1 . . . .	78-8079-8869-2 . . . . .	BRACKET, Motor . . . . .	1
2 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 x 5/16 . . . . .	3
3 . . . .	26-1005-7810-8 . . . . .	SCREW, Taptite, M3.5 x 6 . . . . .	5
4 . . . .	78-8079-8788-4 . . . . .	BLADE, Fan (White) . . . . .	1
5 . . . .	26-1006-7884-1 . . . . .	SCREW, Type BT, 4-24 x 5/8 . . . . .	1
6 . . . .	78-8079-8823-9 . . . . .	SWITCH, Micro . . . . .	1
7	Not Used		
8 . . . .	78-8079-8873-4 . . . . .	DUCT, Fan, Rear . . . . .	1
9 . . . .	78-8079-8874-2 . . . . .	DUCT, Fan, Forward . . . . .	1
10 . . .	78-8079-8977-3 . . . . .	LABEL, Lamp Replacement (FXL) . . . . .	1
11 . . .	78-8079-8787-6 . . . . .	MOTOR-FAN 120V, FXL . . . . .	1
12 . . .	78-8064-1834-5 . . . . .	DIODE, Inline . . . . .	1
13 . . .	26-1002-4971-8 . . . . .	SCREW, Plastite, 6-19 x 1/2 . . . . .	1
14 . . .	26-1007-5427-9 . . . . .	SCREW, 6-19 x 3/8 L, Plastite . . . . .	1
15 . . .	78-8079-8797-5 . . . . .	PLATE, Cord, Small (Gray) . . . . .	1
16 . . .	78-8006-8611-1 . . . . .	NAMEPLATE, Data . . . . .	1

**Section 8**  
**FXL DUAL LAMP HOUSING**



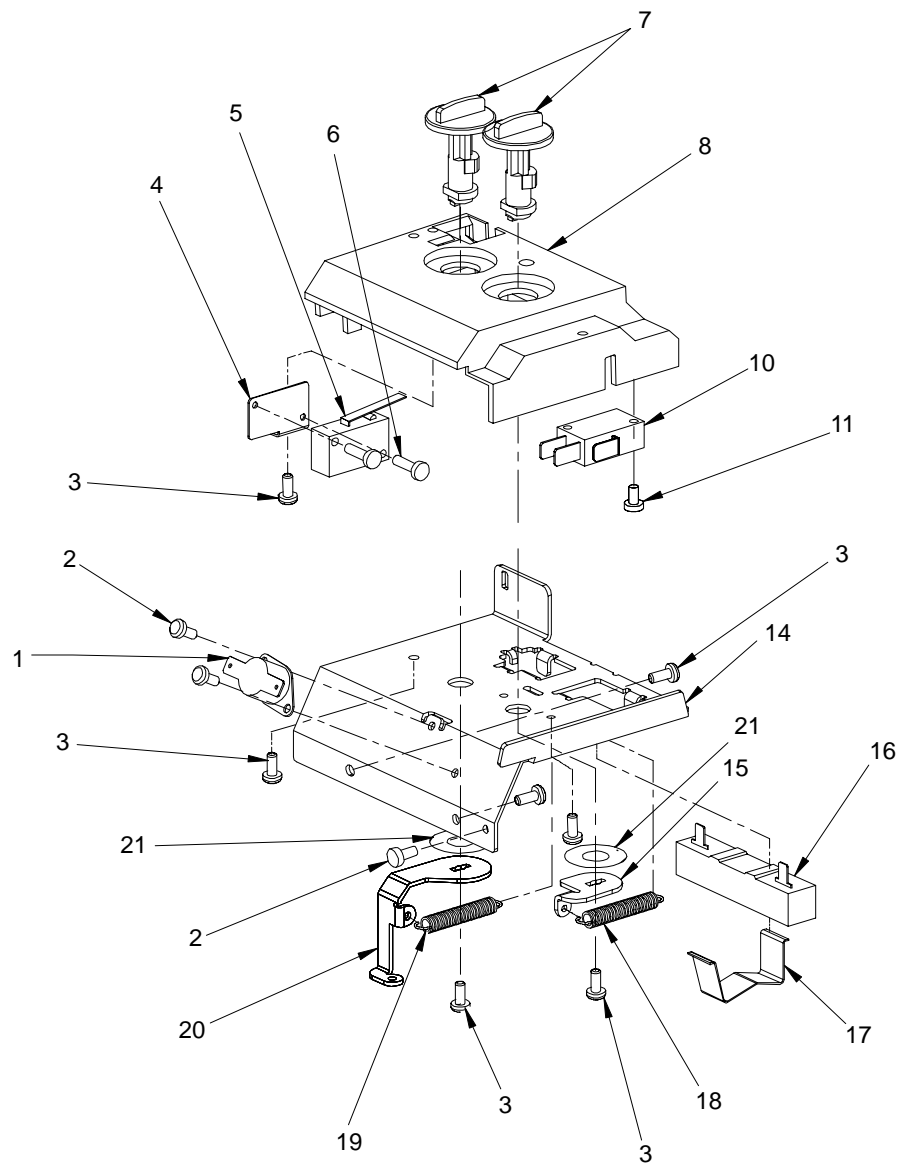
**Section 8**  
**FXL DUAL LAMP HOUSING**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
0 . . . .	78-8095-8366-5 . . . . .	LAMP MODULE (120V) (Complete Assembly) . . . . .	1
1 . . . .	78-8095-8343-4 . . . . .	HOUSING, Lamp Module . . . . .	1
2 . . . .	26-1005-7810-8 . . . . .	SCREW, Taptite, M3.5 X 6 . . . . .	6
3 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 X 5/16 . . . . .	3
4 . . . .	78-8079-8923-7 . . . . .	BRACKET, Wire Cover . . . . .	1
5 . . . .	78-8079-8858-5 . . . . .	PLATE, Socket, ENX D . . . . .	1
6 . . . .	78-8079-8862-7 . . . . .	EJECTOR, Lamp . . . . .	1
7 . . . .	Not Used		
8 . . . .	78-8003-8335-4 . . . . .	WIRE TIE . . . . .	1
9 . . . .	78-8079-8984-9 . . . . .	SLEEVE, Insulator . . . . .	1
10 . . .	26-1002-6207-5 . . . . .	SCREW, Taptite, M3 X 12 . . . . .	2
11 . . .	78-8079-8995-5 . . . . .	LAMP SOCKET, Black Wires . . . . .	1
12 . . .	78-8079-8932-8 . . . . .	LAMP SOCKET, FXL Dual, White Wires . . . . .	1
13 . . .	78-8073-7100-6 . . . . .	LAMP, FXL, 410W, 82V (See Note) . . . . .	1
14 . . .	78-8079-8863-5 . . . . .	RETAINER, Lamp . . . . .	1
15 . . .	78-8079-8856-9 . . . . .	PLATE, Lamp, ENX D . . . . .	1
16 . . .	78-8079-8857-7 . . . . .	PIVOT, Lamp Mount, ENX D . . . . .	1
17 . . .	78-8079-8866-8 . . . . .	SLEEVE, Color Tuning . . . . .	1
18 . . .	78-8079-8865-0 . . . . .	BRACKET, Lamp Mount . . . . .	1
19 . . .	78-8079-8912-0 . . . . .	KNOB, Color Tuning . . . . .	1
20 . . .	26-1009-7485-1 . . . . .	SPRING, Compression . . . . .	1
21 . . .	26-1009-7186-5 . . . . .	CLIP, Tinnerman . . . . .	1
22 . . .	78-8079-8893-2 . . . . .	SHAFT, Color Tuning . . . . .	1
23 . . .	26-1009-8261-5 . . . . .	CLIP . . . . .	1
24 . . .	78-8079-8887-4 . . . . .	ROD, Lamp Changer . . . . .	1
25 . . .	78-8079-9021-9 . . . . .	TAPE, Reflective . . . . .	1
26 . . .	DY-1160-2020-6 . . . . .	STRAIN RELIEF . . . . .	1
27 . . .	78-8079-8822-1 . . . . .	POWER CORD, 120V, 10 Ft. . . . .	1

**Note**

Optional second lamp may be installed.

**Section 9**  
**LAMPCHANGER and HI/LO LAMP CONTROL MODULE**

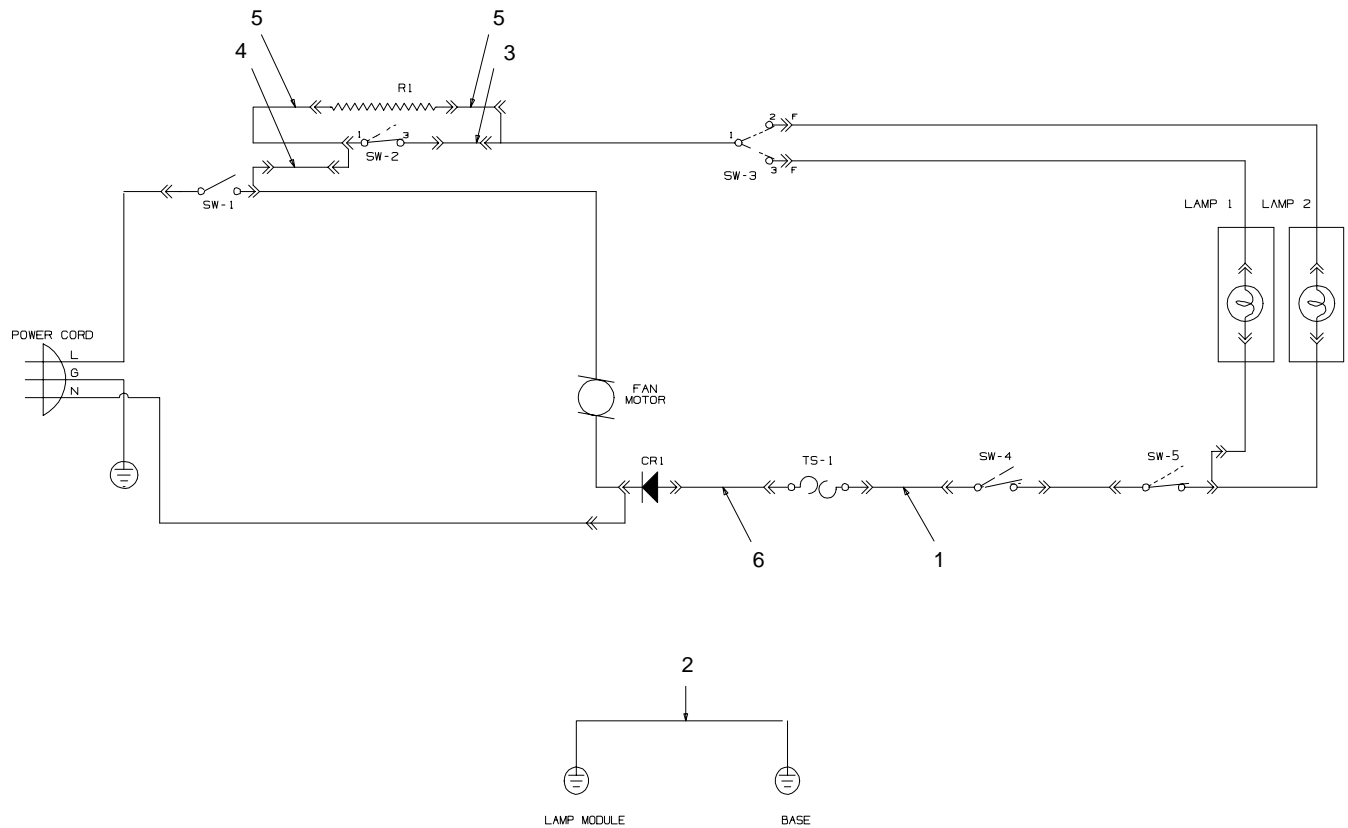




**Section 9**  
**LAMPCHANGER and HI/LO LAMP CONTROL MODULE**

<b>Item</b>			
<b>No.</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
0 . . . .	78-8095-8368-1 . . . . .	LAMP CHANGER and Hi/Lo Control Module FXL (Complete Assembly) . .	1
1 . . . .	78-8095-8293-1 . . . . .	THERMOSTAT . . . . .	1
2 . . . .	26-1005-7810-8 . . . . .	SCREW, Taptite, M3.5 x 6 . . . . .	3
3 . . . .	26-1002-4948-6 . . . . .	SCREW, Plastite, 6-19 x 5/16 . . . . .	1
4 . . . .	78-8079-8886-6 . . . . .	ADAPTER, Switch, Interlock . . . . .	1
5 . . . .	78-8079-8823-9 . . . . .	SWITCH, Micro . . . . .	1
6 . . . .	26-1002-6207-5 . . . . .	SCREW, Taptite, M3 x 12 . . . . .	2
7 . . . .	78-8079-8880-9 . . . . .	KNOB, Lampchanger . . . . .	2
8 . . . .	78-8079-8879-1 . . . . .	HOUSING, Control, 2 Hole . . . . .	1
<b>9</b>	Not Used		
10 . . .	78-8079-8855-1 . . . . .	SWITCH, Lampchanger/Hi/Lo, Dimmer . . . . .	2
11 . . .	26-1006-7884-1 . . . . .	SCREW, Type BT, 4-24 x 5/8 . . . . .	1
12	Not Used		
13 . . .	26-1008-4567-1 . . . . .	SCREW, Taptite, 4-24 x 3/4 . . . . .	2
14 . . .	78-8079-8885-8 . . . . .	BRACKET, Lamp Changer . . . . .	1
15 . . .	78-8079-8882-5 . . . . .	LEVER, Switch, Intensity . . . . .	1
16 . . .	78-8073-7127-9 . . . . .	RESISTOR . . . . .	1
17 . . .	78-8079-8925-2 . . . . .	RETAINER, Resistor . . . . .	1
18 . . .	26-1009-7377-0 . . . . .	SPRING, External . . . . .	1
19 . . .	12-7995-0850-7 . . . . .	SPRING, External . . . . .	1
20 . . .	78-8079-8881-7 . . . . .	LEVER, Lamp Changer . . . . .	1
21 . . .	78-8079-9065-6 . . . . .	WASHER, Lamp Changer . . . . .	2

### Section 10 WIRE JUMPERS



Item No.	Part Number	Description	Qty
1	78-8095-8288-1	JUMPER, Thermostat To Pan Switch	1
2	78-8054-1485-7	JUMPER, Ground	1
3	78-8079-8968-2	JUMPER, 3.5"	1
4	78-8079-8967-4	JUMPER, 8.75"	1
5	78-8079-8970-8	JUMPER, Resistor, 4.5"	2
6	78-8079-8992-2	JUMPER, 9.75"	1

Appendix A  
SPECIFICATIONS

Model Description	Country	Power Cord	Model Alpha	Stock Number	Voltage	Agency	Stage Size	Head Type	Lampchanger	Color Tuning	Post Type	Lamp Type	Handle	Lamp Control	Lamps Installed	Fresnel	Power	Fuse	Cord Storage
9700 Overhead Projector		United States	9600 AJN	78-9236-6052-1	120V 60Hz	UL/CSA	10.5	Open Triplet	Yes	External	Folding	FXL	Yes	Dimmer Switch	1	Single Element Glare Free	Diode	None	Yes

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